In the Claims:

DRAFT

For discussion only. Please do not enter.

Please amend the claims as follows:

1. (currently amended) A method for identifying a peptide as capable of binding to a proteinaceous target, said method comprising

displaying the peptide on the surface of a replicable display package,
synthesizing a set of oligopeptides derived from the proteinaceous target on a solid phase,
contacting the binding peptide on the surface of said package with the oligopeptides on
said solid phase, and

identifying whether binding occurs,

wherein the displayed peptide on the surface of a replicable display package is an immunoglobulin heavy chain, an immunoglobulin light chain, a heavy-light chain pair, a single chain antibody fragment, VH, a VL, a Fab, a Fv, an scFv or a di-sulfide-bridged Fv.

2. (withdrawn)

3. (currently amended) A method for distinguishing between peptides capable of binding to a proteinaceous antigen and peptides not having that capability, said method comprising

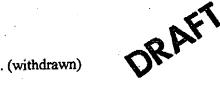
displaying candidate peptides on the surfaces of replicable display packages, synthesizing <u>a set of</u> oligopeptides derived from the proteinaceous antigen on a solid phase,

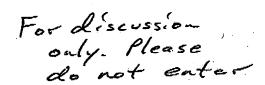
contacting the candidate peptides on the surfaces of said packages with the oligopeptides on said solid phase to permit binding by said candidate peptides, and

washing the solid phase to remove unbound display packages,

wherein the displayed candidate peptides are immunoglobulin heavy chains, immunoglobulin light chains, heavy-light chain pairs, single chain antibody fragments, VH domains, VL domains, Fab domains, Fv domains, scFv domains or di-sulfide-bridged Fv domains.

Serial N . 09/284,107 Docket No.313632000600





- 4. (withdrawn)
- [[A]] The method according to claim 1, whereby the 5. (currently amended) replicable display package is a phage particle.
- [[A]] The method according to claim 1, whereby the 6. (currently amended) replicable display package is a bacterium, a yeast or a spore of a microorganism.
- [[A]] The method according to claim 5, whereby the 7. (currently amended) binding peptide is displayed on the surface of the phage particle by insertion of a genetic sequence encoding said peptide in a gene encoding a surface protein of said phage particle.
- [[A]] The method according to claim 1, whereby the 8. (currently amended) displayed peptide is a single chain antibody fragment.
- [[A]] The method according to claim 1 whereby the 9. (currently amended) displayed peptide is an ScFv.
- [[A]] The method according to claim 1, further comprising 10. (currently amended) a step whereby the displayed peptide is contacted with a sample not containing said oligopeptides.
 - 11. (withdrawn)
 - 12. (withdrawn)
- [[A]] The method according to claim 3, whereby the 13. (currently amended) replicable display packages are phage particles.
- [[A]] The method according to claim 3, whereby the 14. (currently amended) replicable display packages are bacteria, yeast or spores of a microorganism.

sd-162152

- 15. (currently amended) [[A]] The method according to claim 13, whereby the candidate peptides are displayed on the surface of the phage particles by insertion of genetic sequences encoding said peptides in a gene encoding a surface protein of said phage particles.
- 16. (currently amended) [[A]] The method according to claim 3, whereby the candidate peptides are single chain antibody fragments.
- 17. (currently amended) [[A]] <u>The</u> method according to claim 3 whereby the candidate peptides are ScFv domains.
- 18. (currently amended) [[A]] The method according to claim 3, further comprising a step whereby the candidate peptides are contacted with a sample not containing said antigen.
- 19. (currently amended) [[A]] The method according to claim 1 wherein said proteinaceous target is a protein.
- 20. (currently amended) [[A]] The method according to claim 3, wherein said proteinaceous antigen is a protein.

ORAFT only; please do not enter

Serial No. 09/284,107 Docket N .313632000600

sd-162152